

**Dr. Duke's Phytochemical and Ethnobotanical Databases**

**List of Plants for ALPHA-AMYRIN**

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Agrimonia eupatoria</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Albizia lebbeck</i>	Flower				Wealth of India.
<i>Allium cepa</i>	Bulb				Smocziewiczowa, A., Nitschke, D. 1978. Study of Saponins and Sapogenins in Onions. Zeszyt Nauk Akad Ekon Poznań Ser, 1(73): 40-43.
<i>Angelica archangelica</i>	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Apocynum cannabinum</i>	Root				--
<i>Arctium lappa</i>	Leaf				--
<i>Arctium lappa</i>	Plant				Jim Duke's personal files.
<i>Arctostaphylos uva-ursi</i>	Leaf				--
<i>Arctostaphylos uva-ursi</i>	Shoot				--
<i>Arctostaphylos uva-ursi</i>	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Artemisia vulgaris</i>	Plant				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Artemisia annua</i>	Plant				Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M. (Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.1991pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
<i>Artocarpus altilis</i>	Fruit				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Asclepias syriaca</i>	Sprout Seedling				--
<i>Boswellia serrata</i>	Resin, Exudate, Sap				--
<i>Brassica oleracea</i> var. <i>botrytis</i> L.	Flower				--
<i>Brassica oleracea</i> var. <i>italica</i>	Bud	5.0	30.0		Jim Duke's personal files.
<i>Brassica oleracea</i> var. <i>botrytis</i> L.	Bud				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Cajanus cajan</i>	Root				Grenand, P., Moretti, C., and Jacquemin, H. 1987. Pharmacopees Traditionnelles en Guyane. L'ORSTROM, Paris. 569 pp.
<i>Calendula officinalis</i>	Flower				--
<i>Calotropis sp.</i>	Bark				--
<i>Camellia japonica</i>	Seed				Wealth of India.
<i>Camellia sinensis</i>	Seed Oil				--
<i>Centaurium erythraea</i>	Plant				--
<i>Cichorium intybus</i>	Seed				--
<i>Citrullus colocynthis</i>	Seed				--
<i>Cnicus benedictus</i>	Plant				--
<i>Cnicus benedictus</i>	Shoot				Jim Duke's personal files.
<i>Cocos nucifera</i>	Seed Oil				Jim Duke's personal files.
<i>Cucumis sativus</i>	Seed				--
<i>Cucumis melo</i>	Seed				Chemical Constituents of Oriental Herbs (3 diff. books)
<i>Daucus carota</i>	Root				--
<i>Euphorbia pulcherrima</i>	Plant				--
<i>Euphorbia hirta</i>	Plant				--
<i>Fagopyrum esculentum</i>	Seed				--
<i>Gaultheria procumbens</i>	Shoot				--
<i>Gaultheria procumbens</i>	Leaf				--
<i>Glechoma hederacea</i>	Plant				--
<i>Glycine max</i>	Sprout Seedling				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Glycine max</i>	Seed				--
<i>Guarea rusbyi</i>	Plant				--
<i>Helianthus annuus</i>	Seed				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Hemidesmus indicus</i>	Root				--
<i>Iris x germanica</i>	Rhizome				--
<i>Jatropha curcas</i>	Leaf				--
<i>Juniperus communis</i>	Stem				--
<i>Kalanchoe pinnata</i>	Leaf				--
<i>Lantana camara</i>	Plant				--
<i>Ligustrum japonicum</i>	Flower				--
<i>Lycopersicon esculentum</i>	Fruit				--
<i>Mitchella repens</i>	Plant				--
<i>Morus alba</i>	Root Bark				--
<i>Myrica cerifera</i>	Leaf				--
<i>Myrica cerifera</i>	Root				--
<i>Myrica cerifera</i>	Stem				--
<i>Myrica cerifera</i>	Fruit				--
<i>Nerium oleander</i>	Plant				--
<i>Oenothera biennis</i>	Inflorescence				--
<i>Oenothera biennis</i>	Seed	125.0	266.0		--
<i>Pisum sativum</i>	Seed				--
<i>Plantago ovata</i>	Seed				--
<i>Pluchea carolinensis</i>	Plant				Tramil
<i>Plumeria acutifolia</i>	Latex Exudate				--
<i>Psidium guajava</i>	Fruit				--
<i>Rhododendron ferrugineum</i>	Leaf				--
<i>Rhododendron ponticum</i>	Plant				--
<i>Rosmarinus officinalis</i>	Shoot		13.0		--
<i>Rosmarinus officinalis</i>	Plant				--
<i>Salvia officinalis</i>	Plant				--

Plant	Part	Low PPM	High PPM	StdDev	Reference
<i>Salvia officinalis</i>	Leaf		1800.0		--
<i>Sambucus nigra</i>	Leaf				--
<i>Sambucus nigra</i>	Flower				--
<i>Sambucus nigra</i>	Bark		379.0		--
<i>Sarcostemma acidum</i>	Plant				--
<i>Sarracenia purpurea</i>	Root				--
<i>Sarracenia purpurea</i>	Shoot				--
<i>Sarracenia flava</i>	Root		600.0		--
<i>Sesamum indicum</i>	Seed Oil				--
<i>Sesamum indicum</i>	Seed				--
<i>Strychnos nux-vomica</i>	Seed				--
<i>Teucrium polium</i>	Plant				Rizk, A.F.M., The Phytochemistry of the Flora of Qatar, Scientific and Applied Research Centre, University of Qatar, Kingprint, Richmond, UK, 1986.
<i>Thevetia peruviana</i>	Plant				J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>Triticum aestivum</i>	Seed				--
<i>Verbascum thapsus</i>	Stem				--
<i>Verbascum thapsus</i>	Leaf				--
<i>Verbascum thapsus</i>	Root				--
<i>Viburnum prunifolium</i>	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
<i>Viburnum prunifolium</i>	Root Bark				--
<i>Viburnum opulus</i>	Root Bark				--
<i>Viburnum opulus</i>	Bark				List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Plant	Part	Low PPM	High PPM	StdDev	Reference
Vitellaria paradoxa	Seed Oil				Itoh, O., Uetsuki, T., Tamura, T., Matsumoto, A. 1980. Characterization of Triterpene Alcohols of Seed Oils From Some Species of Theaceae, Phytolaccaceae and Sapotaceae. Lipids 15 6: 407-411.
Vitellaria paradoxa	Plant				--
Vitis vinifera	Stem				--
Zea mays	Plant				--